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	Application No.	Applicant(s)	
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Notice of Allowability	10/658,506	ZHENG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ANH PHUNG	2824	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to the RCE received on Feb. 22, 2005.			
2. The allowed claim(s) is/are 1-7 and 9-30.			
3. The drawings filed on <u>09 September 2003</u> are accepted by the Examiner.			
<ul> <li>4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached			
1)  hereto or 2)  to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Informal P	atent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	'''	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	te	
Paper No./Mail Date <u>10/24/03 &amp; 3/5/04</u> 4. ☐ `Examiner's Comment Regarding Requirement for Deposit	8. 🕅 Examiner's Stateme	ent of Reasons for Allowance	
of Biological Material	9. ☑ Other <u>Search Histor</u>		
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## **DETAILED ACTION**

1. This Office Action is responsive to the Request For Continued Examination (RCE) received on Feb. 22, 2005, claims **1-7** and **9-30** are pending in the application.

## Information Disclosure Statement

This office acknowledges receipt of the following items from the Applicant:
 Information Disclosure Statement (IDS) filed on October 24, 2003 and March 5,

 2004. Information disclosed and listed on PTO 1449 was considered.

## Examiner's Statement of Reasons for Allowance

3. Claims **1-7** and **9-30** are allowed.

Chang et al. (US 6,754,105), Forbes et al. (US 6,246,606), Lee et al. (US 6,122,201), Eitan (US 6,011,725) and Eitan (US 5,768,192) disclose a charge trapping dielectric memory device and associated method similar to that of the present application, but fail to teach:

"a dielectric charge trapping layer disposed over the first dielectric layer; a second dielectric layer disposed over the charge trapping layer, and a gate electrode disposed over the second dielectric layer, wherein the gate electrode has a work function of about 4.6 eV to about 5.2 eV" as claimed in the independent claim 1; or

"applying a negative erase voltage to a gate electrode, the gate electrode having a work function of about 4.6 eV to about 5.2 eV; one of (i) connecting the source and the drain to a zero potential, or (ii) floating the source and the drain; and connecting the substrate to a zero potential" as claimed in the independent claim **16**; or

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"a first dielectric layer disposed over the substrate; a dielectric charge trapping layer disposed over the first dielectric layer; a second dielectric layer disposed over the charge trapping layer; and a gate electrode disposed over the second dielectric layer, wherein the gate electrode is made from P+ silicon carbide (SiC) " as claimed in the independent claim 21.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comment on Statement of Reasons for Allowance".

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **ANH PHUNG** whose telephone number is **(571) 272-1883**. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD ELMS, can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**AKP**